

ABSTRACT

An asphalt-based roofing material includes a coating having a top portion containing a mixture of asphalt and igneous and/or metamorphic rock particles, while the mat portion of the coating contains a mixture of asphalt and a filler which contains less than 10% igneous and/or metamorphic rock particles. In other embodiments, the top portion but not the bottom portion of the coating meets or exceeds a pliability standard, passes a weathering performance test, or has a high solar reflectance. In another embodiment relating to a laminated roofing material, the top portion but not the bottom portion has viscoelastic properties effective to prevent the coating from sticking to an adjacent shingle in a bundle. The invention also relates to a continuous process of applying first and second coatings to a mat for manufacturing a roofing material. In a first coating operation, a first asphalt-based coating is continuously applied to a first surface of the mat so that the first coating saturates the mat and forms a layer on the first surface. In a second coating operation, a second asphalt-based coating is continuously applied to a second surface of the mat so that the second coating forms a layer on the second surface. The second coating has different properties from the first coating.

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